

Title (en)

Device for coherently combining laser beams

Title (de)

Vorrichtung zur kohärenten Addition von Laserstrahlen

Title (fr)

Dispositif d'addition cohérente de faisceaux laser

Publication

**EP 0436411 B1 19960424 (FR)**

Application

**EP 90403346 A 19901127**

Priority

FR 8915878 A 19891201

Abstract (en)

[origin: US5121400A] Device for coherent addition of laser beams including several optical amplifiers in parallel pumped by a beam coming from a master laser. The beams emitted by these amplifiers are transmitted to a non-linear material and play the role of pump beams. The non-linear material also receives a signal beam derived from the master laser. The various beams of the amplifiers are therefore added in the non-linear material along the direction of the signal beam.

IPC 1-7

**H01S 3/23**

IPC 8 full level

**G02F 1/39** (2006.01); **H01S 3/23** (2006.01)

CPC (source: EP US)

**G02F 1/397** (2013.01 - EP US); **H01S 3/2383** (2013.01 - EP US)

Cited by

JPH0629605A; US5373526A; EP0571126A3

Designated contracting state (EPC)

DE GB

DOCDB simple family (publication)

**EP 0436411 A1 19910710**; **EP 0436411 B1 19960424**; DE 69026696 D1 19960530; DE 69026696 T2 19960919; FR 2655435 A1 19910607; FR 2655435 B1 19920221; US 5121400 A 19920609

DOCDB simple family (application)

**EP 90403346 A 19901127**; DE 69026696 T 19901127; FR 8915878 A 19891201; US 62003290 A 19901130